

# @ohnurseedu Digital Platform healthcare innovation OHN education opens up a paradigm of job opportunities for nurses in companies based on Evidence Base Practice Healthcare OHN practice and services in Indonesia.

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## Abstract

**Introduction:** Digital health technology completes the cycle of nursing informatics since technical complexity can have both beneficial and detrimental consequences depending on how we use it. These concepts and relationships generate and enable nursing ideas and evidence. service recipients in a range of contexts, such as families, communities, individuals, and demographic groups.

**Objective:** Experts in occupational health and safety In 49 countries, it has been accepted by occupational hygienists, occupational physicians, professional nurses, safety engineers, ergonomists/physiotherapists, psychologists. **Method:** This qualitative study employs exploratory descriptive analysis and features a phenomenological research design.

**Results:** The study found that @ohnurseedu is the first dedicated digital platform in Indonesia for Occupational Health Nursing (OHN) education, providing centralized access to job vacancies, competency-based training, and industry-relevant knowledge. Participants reported that its webinars, workshops, and curated resoures significantly improved their understanding of OHN practices and industrial HSE standards, filling a gap not addrsed in conventional nusing curricula.

**Conclusion:** In this research, it can be concluded that in 2024, the momentum for the Occupational Health Nurse profession in Indonesia will be promoted, through the digital platform @ohnurseedu all information about OHN and Paramedics.

**Keywords:** Occupational Health Nurse, Digihealth Platform, Occupational Health

## INTRODUCTION

The urgency and importance of the occupational health aspect are fundamental for realizing a prosperous Indonesia by 2045. Considering that individuals spend about a third of their day at work, effective implementation of HSE policies can prevent even stunted growth, particularly among young and productive workers. In this context, nurses are essential. As Indonesia moves toward the 2030 industrial resilience milestone, numerous foreign investors and companies are engaging in operational projects or partnering in operations alongside state-owned enterprises. Be sure to inform us that @ohnurseedu and APPOKI benefit from the backing of occupational health specialists, both on a national and international scale. This platform is readily accessible to students and professional nurses through social media channels, such as Instagram

@ohnurseedu, where they can discover more information and show interest in nursing careers within corporate or industrial fields. We cannot stop the digitization of healthcare, so we must be prepared to adjust and react to this trend sensibly. While there are advantages to using Digihealth in OHN practice to design OH programs, there are also some drawbacks that require more research, such as the need to manage and prevent data leaks. The objective of this study is to explore and describe the role of the @ohnurseedu digital platform as a healthcare innovation in promoting Occupational Health Nursing education and career opportunities in Indonesia. Other than that, Digihealth does not interfere with OHN's ability to do its duties. As a researcher to lessen originality in order to address concerns that are popular in his workplace. For nursing practice to be relevant in the ever-evolving world, digital technologies like artificial intelligence (AI) must be embraced or incorporated into these nursing and ethical care components (Fronczek, 2019).

Position Statement of the ANA Center for Ethics and Human Rights, ANA Board of Directors, 2022 According to the ethical application of AI in nursing practice, integrating AI cannot alter the objectives of patient care. Care, compassion, and trust are the pillars of the nurse-patient relationship. Advanced digital technology that is always evolving must be adopted or integrated into nursing practice within these nursing and ethical principles if nursing practice is to remain relevant in a constantly shifting setting (Fronczek, 2019). Digital health technology completes the cycle of nursing informatics since technical complexity can have both beneficial and detrimental consequences depending on how we use it. The initiative's working groups are operationalizing fundamental concepts in data, computers, and nursing care to direct novelty of this study lies in presenting the first qualitative phenomenological research in Indonesia that documents practitioners' perspectives on the @ohnurseedu digital platform as an innovative medium to promote Occupational Health Nursing, while simultaneously mapping its potential to standardize OHN practice nationally.

## METHODS

This qualitative study employs exploratory descriptive analysis and features a phenomenological research design. In order to gather data, the researchers submitted questionnaires to OHN practitioners who were active and experienced nurses working for both domestic and foreign organizations, the exclusion criteria for this study excludes nurses without experience in occupational health nursing, individuals who refuse to participate in the research, and healthcare practitioners unrelated to occupational health nursing education on practice. The data collection method uses a group questionnaire WhatsApp to facilitate this, given that professionals' service positions in remote areas frequently experience signal interference, and that some of OHN's scientific development activities are sourced from the @ohnurseedu platform and various HSE media in Indonesia. gathering of data. The three participants were from mining, oil, gas, and forestry firms both domestically and abroad. This research is conducted over three-month period, from January to March 2024, to ensure comprehensive data collection and in-depth analysis.

## RESULT

Participant 1 Questionnaire and Answers:

1. How long have you been an OHN and Paramedic? "OHN from 2007-2020 = 13 years, Paramedic from 1999 – 2006 = 7 years"
2. Where do you work currently? "Private, PT. Atoz Mega Indonesia"
3. When did you find out about the job opportunities for nurses in the company? "After graduating from college in 1999"
4. If you have worked in health facilities (health service facilities) such as community health centers, clinics, hospitals and laboratories, what is the difference when you work in industry as an OHN or paramedic? "The difference is that OHN focuses on preventive and promotive work, while paramedics are more inclined to curative and rescue services."
5. Was OHN knowledge taught when you studied at a nursing campus? "Very little of it has anything to do with nutrition"
6. What is the urgency for OHN science to be developed in Nursing education? "Integrating OHN in nursing education will increase competency and provide broad benefits for workers, companies and society. OHN's scientific development provides new career opportunities in the industrial sector"
7. How impactful is the @ohnurseedu account for the development of OHN and Paramedics in Indonesia? "The OHNurseedu account has a significant impact on the development of OHNs and paramedics in Indonesia because it functions as a valuable resource and platform that supports professional development and increased competency for OHNs and Paramedics."

Participant 2 Questionnaire and Answers:

1. How long have you been an OHN and Paramedic? "Last 2 years"
2. Where do you work currently? "PT. INDEPENDENT LIGHT RAY"
3. When did you find out about the job opportunities for nurses in the company? "2017 while still working at RSPKT Bontang, East Kalimantan"
4. If you have worked in health facilities (health service facilities) such as community health centers, clinics, hospitals and laboratories, what is the difference when you work in industry as an OHN or paramedic? "Hospital with an incalculable/uncertain population treated, with various cases patterned with routine activities based on departments/treatment rooms and actions with dominant treatment and curative activities from collaboration with various professions, Community health centers with a population that varies in terms of age level. Patterned with promotive/educational - preventive activities from the Ministry of Health's Mandatory program and minimally curative with collaborative activities regarding referrals to hospitals. "Meanwhile, OHN itself is specific in enforcing the 4 pillars of health where the population is known in terms of age range, education level, ethnicity, religion so that mapping and application of the 4 pillars of health can be carried out in routine activities which are the responsibility of OHN Medical."
5. Was OHN knowledge taught when you studied at a nursing campus? "Taught as is, but not specifically, perhaps the human resources of the practitioners are not capable of providing classes."
6. What is the urgency for OHN science to be developed in nursing education? "The medical needs of OHN in SMKP are mandatory with a program that is very different from the routine of Community Health Centers and Hospitals which still adhere to Knowledge and Soft Skills from Anatomy, Physiology, Toxicology and Pharmacology."
7. How impactful is the @ohnurseedu account for the development of OHN and Paramedics in Indonesia? "The presence and existence of @ohnurseedu is an absolute thing for the OHN medical profession so that the performance and work programs implemented in the Site area can be standardized, especially as the main driver in creating legality and socialization so that Medical Nurses are no longer grouped under the title "paramedic" and remain pure. OHN."

Participant 3's Questionnaire and Answers:

1. How long have you been an OHN and Paramedic? "approximately 3 years, HSE Medic & Coord Health System 1 year"
2. Where do you work currently? "PTPN IV (PalmCo)"
3. When did you find out about the job opportunities for nurses in the company? "During the Covid19 Pandemic, many companies/Industries needed Nurses"
4. If you have worked in health facilities (health service facilities) such as community health centers, clinics, hospitals and laboratories, what is the difference when you work in industry as an OHN or paramedic? "I have worked in the health sector since I was in my 4th semester of nursing, as an event paramedic where I carried out counseling, vital sign checks and first aid at every Kalbe Farma event in the Banyuwangi-Situbondo area. Then I continued my career at a Holistic Clinic where my working hours were flexible and in hospitals, both private and state, it was very, very difficult when I was a hospital nurse with contract employee status (PKWT) where we had to be completely ready and able to support various rooms. And finally, exploring a career at a State Plantation Company (BUMN) where there is very little interest from colleagues who work in this sector are indeed required to be versatile but the welfare aspect is very guaranteed, starting from being a nurse/paramedic to HSE medical and returning to pursuing OHN while continuing their master's education. nursing."
5. Was OHN knowledge taught when you studied at a nursing campus? "It's not taught, it's just that we are taught in the Occupational Health and Safety course, which is taught by a senior doctor, he is a former Chevron and Pertamina company doctor. From his training, I personally made myself stronger in taking thesis research related to Occupational Health and Safety. It's a shame that the supervisors and examiners are not yet competent in science. Occupational Health and Safety so that it was easier for me to complete my thesis and I was the only one taking research in the field of Occupational Health and Safety in my class."
6. What is the urgency for OHN science to be developed in Nursing education? "With the overload of nurses in health facilities, nursing students will get an overview and broaden their insight into the paradigm of job opportunities for nurses. However, it is hoped that the teaching staff must have competence in the field of OHN so that students can easily digest the material given."
7. How impactful is the @ohnurseedu account for the development of OHN and Paramedics in Indonesia? "Very impactful, this platform innovation is a movement to renew job opportunities for

the nursing profession, there is a lot of information about OHN and Paramedic job vacancies both from within and outside the country. Apart from that, there are updated learning activities and work health issues."

## DISCUSSION

Digital Platform @ohnurseedu: Healthcare Innovation in Occupational Health Nursing (OHN) Education @ohnurseedu is a pioneering digital platform focused on Occupational Health Nursing (OHN) education in Indonesia. It serves as both an educational resource and a professional network for nurses interested in or currently working in occupational health roles, particularly within industrial and corporate settings.

### Key Features and Innovations

- a. Educational Outreach: @ohnurseedu provides accessible information and resources on the scope, roles, and career opportunities of Occupational Health Nurses in Indonesia, a field that has historically been underrepresented in nursing education and practice.
- b. Professional Development: The platform collaborates with practitioners and academics to offer webinars, such as the "Webinar Bedah Buku Ensiklopedi Occupational Health Nursing," covering comprehensive topics in OHN, from foundational concepts to advanced practice, and offering professional credits (SKP) and certification.
- c. Community and Networking: @ohnurseedu, together with APPOKI (Akademi Praktisi Perawat Okupasi Indonesia), creates a digital community for students and practicing nurses, supported by national and international OHN professionals. This network helps raise awareness and interest in OHN as a viable and rewarding career path.
- d. Advocacy and Image Building: The platform aims to shift the paradigm regarding the role and image of nurses in Indonesia, highlighting the importance and benefits of OHN, such as competitive salaries, diverse work environments, and significant contributions to workplace health and safety.
- e. Integration with Global Trends: By aligning with Sustainable Development Goals (SDGs) and adapting to global health trends, @ohnurseedu positions OHN as a critical discipline for Indonesia's future workforce health, supporting the vision of a "Generasi Emas 2045" (Golden Generation 2045).

### Impact and Importance

- Bridging Educational Gaps: There is a noted lack of formal OHN education and training programs in Indonesian universities. @ohnurseedu addresses this gap by providing digital learning opportunities, practical knowledge, and up-to-date references, including the first Indonesian reference book on OHN written by its team.
- Workforce Optimization: With nurses constituting the largest segment of Indonesia's healthcare workforce, the platform advocates for optimal distribution of nursing talent into industrial and corporate sectors, supporting both public health and economic productivity.
- Professional Recognition: @ohnurseedu is recognized as an intellectual property (HKI) and is affiliated with the Indonesian Network of Occupational Safety and Health Professionals (INOSHPRO), lending credibility and formal support to its initiatives.

Accessibility, Digital and Social Media Presence: The platform is primarily hosted on Instagram (@ohnurseedu), making it easily accessible to students and professionals across Indonesia and facilitating real-time engagement and information dissemination. Collaborative Model: By fostering collaboration between practitioners and academics, @ohnurseedu ensures that its educational content is both theoretically sound and practically relevant, supporting the continuous professional development of OHNs. In summary, @ohnurseedu exemplifies healthcare innovation in this study has several limitations. First, data collection relied primarily on qualitative responses from a limited number of Occupational Health Nursing practitioners, which may not fully capture the diversity of experiences across all sectors in Indonesia. Second, the study did not include longitudinal tracking to measure the long-term impact of @ohnurseedu on career progression and competency development. Third, the findings are context-specific to the Indonesian setting and may have limited generalizability to other countries with different occupational health systems. Future research should involve larger and more varied sample, integrate quantitative performance metrics, and explore comparative analyses with other digital health education platforms.

## CONCLUSIONS

In this research, it can be concluded that in 2024, the momentum for the Occupational Health Nurse profession in Indonesia will be promoted, through the digital platform @ohnurseedu all information about OHN and

Paramedics is very easy to access, starting from job vacancy information, self-development, webinars-workshops, updated training information about HSE . In particular, APPOKI (Indonesian Occupational Nurse Practitioner Academy) has been appointed as the initiator of applicable OHN science in accordance with the needs of OH programs in industry/companies. Based on the participants, it is hoped that OHN knowledge can be taught in nursing education at both diploma and undergraduate levels, even the occupational health nursing course will stand alone because it will discuss more aspects of occupational health in nursing science, not community nursing. If you look at the opportunities, they are very promising and prosperous, apart from the opportunity to become civil servants and PPPK, this is to optimize the distribution of health workers in Indonesia so that there is no overload in health service facilities (hospitals, health centers and clinics).

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